BELLSOUTH

BellSouth

Suite 900 1133-21st Street, N.W. Washington, D.C. 20036-3351

ben.almond@bellsouth.com

Bon G. Almond Vice President-Federal Regulatory

202 463-4112 Fax 202 463-4198

August 2, 2000

Mr. Dale N. Hatfield Federal Communications Commission 445 12th Street SW, Room 7-C155 Washington, D.C. 20554

RE:

Final Service Disruption Report

Dear Mr. Hatfield:

Pursuant to the requirements of the Commission's Order in CC Docket 91-273, released February 27, 1992, BellSouth Telecommunications, Incorporated submits a Final Service Disruption Report for a service outage that occurred on July 3, 2000.

The attached final report completes our response on the July 3, 2000 outage. It includes an update of the information previously provided in the 72-Hour Service Disruption Report that was sent to the Commission's Watch Office on the July 3, 2000.

If you have any questions concerning this report, please contact the undersigned.

Sincerely,

Ben G. Almond

Vice President-Federal Regulatory

Attachment

cc:

Robert Kimball

FINAL SERVICE DISRUPTION REPORT

This Final Service Disruption report is filed by BellSouth Telecommunications Inc., in accordance with both the First and Second Report and Order Amendment of Part 63.100 of the Federal Communications Commission's rules. A 72-hour Initial Service Disruption Report for this July 3, 2000 outage in New Orleans-Riverside, Louisiana was filed with the FCC Watch Officer on July 3, 2000.

GEOGRAPHIC AREA AFFECTED:

This service outage affected the metropolitan business and residential customers served in the New Orleans-Riverside central office in LATA 490 in Louisiana.

DURATION OF OUTAGE:

This outage began at 12:07:26 PM CDT and ended at 12:47:30 PM CDT for a total duration of 40 minutes 4 seconds.

ESTIMATED NUMBER OF CUSTOMERS AFFECTED:

There were approximately 49,194 customers affected during this service disruption.

TYPES OF SERVICE AFFECTED:

Inter-Office, Intra-LATA, Inter-LATA and LIDB/800 services were affected during this SS7 isolation.

ESTIMATED NUMBER OF BLOCKED CALLS:

There were approximately 62,828 blocked calls during this service outage.

APPARENT OR KNOWN CAUSE OF THE INCIDENT:

Root cause analysis determined the two "T" carriers transporting the SS7 A-links for this central office were both timed from one TOCA pack in the DCD400. In addition, the DCD400 failed to switch the TOCA card in slot one to protect" when it became defective.

ROOT CAUSE:

Process Error - Telco (CCS7 A-Link diversity)

METHODS USED TO RESTORE SERVICE:

At 12:07:26PM CDT, the New Orleans-Riverside, LA EWSD switch became SS7 isolated. BellSouth established a maintenance bridge at 12:15PM CDT to determine the point of failure. It was determined there were DCD400 clock alarms in office. The SS7 isolation ended at 12:47:30 PM CDT when the standby TOCA DCD400 clock card was swapped with the active card.

STEPS TO PREVENT RECURRENCE:

BellSouth rewired timing for one of the "T" carriers to another slot on the DCD400 on July 13, 2000 ensuring diverse timing feeds to each SS7 A links.

In addition, BellSouth replaced the defective TOCA pack on July 4, 2000, and performed a manual and automatic switch test of the DCD400. In addition the MCA switch card was upgraded to an MCA-2 card (which controls the TOCA cards being able to switch to protect). Manual and automatic switch tests were completed and passed.

EVALUATION OF EFFECTIVENESS AND APPLICATION OF NRC RECOMMENDATIONS AND BEST PRACTICES

Having reviewed the Network Reliability Council's Compendium of Technical Papers, Section B, Signaling Network Systems, best addresses this service disruption. Paragraph 5.2.7.1.1 speaks to A-Link Diversity and references Paragraph 6 (which contains recommendations and best practices for maintaining CCS7 link diversity). In Paragraph 6.2.1.5, it refers to the CCS Signaling Link Element Diversity guidelines contained in Appendix 7. Specifically, Page 4 includes the Timing/Synchronization Equipment Checklist, and Item 6 calls for a check-off on the "timing feed to each CCS Link from different output card on the bits or secondary clocks".

NO. 435 NO. 635 P001/001

00-101

120 Minute Initial Report
Initial Report

SERVICE DISRUPTION

72 Hour Initial Report

<u>IO:</u> FCC Watch Off Washington, D.	icer of C. Pax No	: (202)-418-2812 : (202)-418-2813 : (302)-632-6975	OR <u>70:</u> RCC Watch Officer Columbia Operations Center Columbia, Maryland		FAX No.: (301)-725-2521 Tel. No.: (301)-725-2278	
FROM: BellSouth Teleco	mmunications	Reported Initiated I Contact No.:	By: Mike White (404-321-2516]
Date of Incident: Date of BST's Kr	nowladge of Inciden	7/3/2000 et: 7/3/2000	Time of Incident: Time of Knowledge	12:07:26 12:07:26	AM EST PM CST AM EST PM CST	
Duration of Incide	r of Customers Aff	_	49.194 Estimated N	Potential	19,194	
State: Low CLLI: NWO LATA #: 490 Rural 🗵	Orleans disiana RLARVDS0	purban	Types of Services Intra-Office Inter-Office Intra-LATA Inter-LATA	Affected: 911 Congestion Operator Serv LIDB/800	ices	
Switch Types: ATT 1AESS ATT SESS ATT STP NTI DMS 100 NTI DMS 100 OTHER:	NTI S Sieme Ericss Alcate	TP Tree to the state of the sta	ory of Incident Whice ocal Switch OPS andem (Local) andem (LATA)	Makes this Report SS7 Congestion Facility Special 911	78ble: >50,000 Lines 30,000 to 49,999 Fire FAA/Media Alter	
Apparent or Know		it: Failure of exu	emal timing supply.			
Methods to Restore Steps to Prevent Ro	turrence: To I	ced circuit pack in ex	dernal timing supply.			
D Tol. #: (2	G. Almond irector - Federal Re 02)-463-4112 02)-463-4198	Da Egulatory Tir	ne Reported To FCC: me Reported To FCC: C Contact:		AM EST PM CST	